

CLAIMS

1. A coaxial cable connector comprising:

a connector housing configured to receive a coaxial cable having inner and outer conductors;

a pair of ground contacts, each contact configured to be connectable to an outer conductor of a coaxial cable; and

a center contact configured to be connectable to an inner conductor of a coaxial cable, said connector housing maintaining said center contact and said pair of ground contacts in parallel planes, said center contact positioned between said pair of ground contacts in a strip line geometry.

2. The coaxial cable connector of claim 1, wherein said connector housing includes a slot for receiving said center contact, said housing including flat exterior surfaces for receiving said ground contacts, said slot and flat exterior surfaces being formed parallel to one another, said connector housing forming a dielectric layer separating said center and ground contacts by a predetermined distance.

3. The coaxial cable connector of claim 1, wherein said pair of ground contacts include U-shaped rectangular shells joining one another to surround said center contact.

4. The coaxial cable connector of claim 1, wherein said pair of ground contacts constitute opposed planar walls located on opposite sides of said center contact.

5. The coaxial cable connector of claim 1, wherein said pair of ground contacts include first and second ground shell walls positioned in said parallel planes on opposite sides of said center contact, and third and fourth ground shell walls positioned along side edges of said center contact.

6. The coaxial cable connector of claim 1, wherein said center contact and pair of ground contacts generate an electric field having a magnitude focused in regions extending in a direction transverse to said parallel planes.

7. The coaxial cable connector of claim 1, wherein said pair of ground contacts and center contact form a flux density distribution having primary concentration areas proximate opposite sides of said center contact and secondary concentration areas proximate opposite lateral edges of said center contact.

8. A coaxial cable connector, comprising:
a housing having a first end configured to be connectable to a coaxial cable;
a center contact configured to be connected to a conductor in a coaxial cable;
and

a ground contact configured to be connected to a ground conductor in a coaxial cable, wherein a coaxial cable forms a circumferentially symmetric electric field distribution proximate said first end of said housing and said center and ground contacts form an asymmetric electric field distribution about said housing, said asymmetric electric field distribution having flux density focused in major areas extending outward from opposite sides of said center contact.

9. The coaxial cable connector of claim 8, wherein said ground and center contacts define a strip-line geometry forming an electric field distribution focused in primary and secondary areas, said primary areas having a greater flux density concentration than in said secondary areas.

10. The coaxial cable connector of claim 8, wherein said ground and center contacts form an asymmetric electric field distribution with regions of low flux density located proximate edges of said center contact.